AMERICAN UNIVERSITY of Beirut OBSERVATORY

MONTHLY BULLETIN

METEOROLOGICAL SECTION

FRANS BRUIN: DIRECTOR

GIORGIO CONTINO, ASSOCIATE DIRECTOR

HALIM HOURANI, OBSERVER

BEIRUT, LEBANON

Latitude: 33° 54' 22" N.

Longitude: $2^h\ 21^m\ 52^s.7$ E.

March 1959

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MARCH 1959

METEOROLOGICAL REGISTER

Date	Barometer reduced to O°C Sea level and 45° Latitude 700 mm. +...				Thermometer Degrees Centigrade					
	8:30	14:30	20:30	Mean	Max.	Min.	8:30	14:30	20.30	Mean
1	58.5	57.3	59.2	58.3	15.0	7.5	12.0	14.5	8.5	11.7
2	60.8	61.2	64.0	62.0	12.8	7.0	10.4	11.5	9.5	10.5
3	65.7	64.3	63.4	64.5	15.2	8.0	10.0	14.6	12.2	12.3
4	61.9	61.2	62.8	62.0	13.3	7.2	8.6	12.8	10.6	10.7
5	64.0	64.3	65.3	64.5	12.8	6.6	9.7	9.9	10.0	9.9
6	66.3	65.6	66.6	66.2	15.1	8.9	8.7	14.0	10.4	11.0
7	66.8	66.2	67.4	66.8	16.0	9.1	11.2	15.3	11.4	12.6
8	69.4	68.2	68.6	68.7	16.5	11.6	12.2	15.9	12.2	13.4
9	67.8	66.5	67.4	67.2	18 8	12.7	14.7	18.1	14 9	15.9
10	67.9	65.8	66.3	66.7	19.4	13.0	14.6	18.4	14.6	15 9
11	63.3	60.1	58.0	60.5	20.3	15.6	15.6	19.5	16.8	17.3
12	56.2	54.7	58.0	56.3	22.5	15.1	18.3	21.0	16.5	18.6
13	62.3	62.7	63.9	63.0	20.0	13.0	16.7	19.5	16.0	17.4
14	62.8	60.5	60.3	61.2	19.7	14.0	16.3	19.3	15.8	17.1
15	58.1	57.2	55.9	57.1	23.8	16.0	17.5	21.6	17.3	18.8
16	56.6	56.8	58.3	57.2	19.2	13.0	16.8	18.8	15.6	17.1
17	59.6	59.9	60.5	60.0	19.4	13.0	13.7	18.8	14.3	15.6
18	61.8	61.7	62.4	62.0	18.8	13.2	15.1	17.8	15.0	16.0
19	63.5	62.6	63.3	63.1	18.7	12.2	15.4	18.2	14.5	16.0
20	63.8	61.9	61.7	62.5	18.2	13.7	15.8	17.2	15.5	16.2
21	60.8	59.1	59.1	59.7	18.9	11.1	16.6	18.4	15.1	16.7
22	57.3	57.5	59.4	58.1	16.5	10.7	13.1	14.7	12.5	13.4
23	62.9	63.6	65.1	63.9	19.3	12.7	15.9	18.4	14.5	16.3
24	65.2	64.9	64.1	64.7	19.3	13.0	16.2	18.7	14.9	16.6
25	61.5	60.7	60.5	60.9	17.8	12.5	17.2	16.1	14.1	15.8
26	61.0	60.8	61.8	61.2	19.5	12.4	17.1	19.0	14.5	16 9
27	61.8	61.2	62.0	61.7	19.5	13.2	16.1	19.0	14.5	16.5
28	62.5	61.7	62.3	62.2	19.1	13.5	17.2	17.5	15.4	16.7
29	61.2	58.2	57.2	58.9	18.4	15.2	15.7	18.0	16.8	16.8
30	59.0	59.8	61.2	60.0	20.6	13.6	17.0	19.1	15.5	17.2
31	62.6	62.7	63.8	63.0	20.4	13.7	17.5	19.8	15.1	17.5
	62.35	61.58	62.25	62.07	18.22	12.00	14.61	17.27	14.02	15.30

Barometer, range for month 769.4mm. — 754.7 mm.
„ 71-yr. average for month 761.187mm.
Thermometer, range for month 23.8°C — 6.6°C
„ 82-yr. average for month 15.7°C
Rain total for month 52.61 mm.
„ 82-yr average for month 96.1 mm.
„ Total, Sept. 1st. to end of month 589.50 mm.
„ 82-yr average. Sept. 1st. to end of month 820.41 mm.

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Date	Pressure of Water Vapor Millibars				Relative Humidity per cent.				sun.	Wind per day	Rain
	8:30	14:30	20:30	Mean	8:30	14:30	20:30	Mean	Hrs.	Kms.	m.m.
1	10.6	8.2	8.7	9.2	75	50	79	68	1.0	315	5.20
2	7.7	6.8	5.8	6.8	60	50	49	53	3.8	312	
3	5.4	6.9	8.7	7.0	44	43	60	49	5.1	163	2.60
4	9.0	9.8	7.1	8.6	80	66	57	68	3.5	254	12.96
5	7.1	8.3	6.2	7.2	60	67	52	60	3.1	167	2.05
6	9.1	9.1	6.9	8.4	81	57	56	65	7.2	119	0.40
7	8.6	10.4	9.1	9.4	64	60	67	64	8.4	95	0.20
8	6.1	8.5	8.2	7.6	43	47	58	49	9.6	53	
9	8.7	12.5	12.5	11.2	53	60	74	62	9.4	130	
10	10.5	14.4	13.8	12.9	64	67	84	72	9.4	209	
11	12.9	16.0	14.6	14.5	73	70	76	73	9.0	60	
12	12.0	16.2	15.2	14.5	57	65	81	68	9.3	111	
13	15.0	15.4	14.7	15.0	80	68	81	76	8.5	246	0.37
14	13.9	16.8	15.5	15.4	74	76	87	79	9.5	77	
15	15.0	20.1	14.3	16.5	76	76	72	75	9.5	11	
16	14.8	14.3	12.9	14.0	77	67	73	72	4.3	224	
17	14.6	13.9	13.0	13.8	93	65	82	80	7.0	159	9.32
18	12.1	11.8	11.6	11.8	71	58	69	66	5.3	166	1.90
19	10.6	11.2	11.6	11.1	60	53	70	61	7.8	114	
20	12.0	12.3	12.1	12.1	67	62	69	66	6.1	172	
21	13.9	14.3	12.4	13.5	74	67	72	70	7.8	175	
22	11.4	12.0	11.2	11.5	75	72	76	74	2.7	185	13.35
23	12.1	12.8	13.2	12.7	67	60	80	69	5.7	84	3.56
24	12.4	13.8	12.3	12.8	67	65	73	68	9.4	79	0.20
25	11.9	11.6	11.6	11.7	60	63	72	65	5.7	158	
26	10.4	13.4	12.0	11.9	53	61	72	62	9.5	89	
27	11.6	12.3	12.2	12.0	63	56	73	64	9.3	61	
28	13.0	14.1	13.9	13.7	66	70	80	72	6.2	68	
29	14.0	15.0	13.4	14.1	79	73	70	74	1.0	95	
30	15.0	14.7	13.3	14.3	77	67	75	73	9.0	167	0.50
31	13.3	14.7	13.8	13.9	65	64	82	70	9.5	87	
	11.44	12.63	11.67	11.91	67.7	62.7	71.6	67.3	6.86	142.10	1.70

Height of Barometer above sea level : 33.7 meters.
Height of Thermometers above ground :
Dry and wet 1.25 m. ; Max. 1.30 m. ; Min. 1.50 m.
Hygrometric data from readings of wet and dry bulb thermometers exposed in a Stevenson screen, reduced according to M.O. 265.
Rim of Rain Gauge : above ground 0.66 m. ; above sea level 30.31 m.
Rainfall is read at 20:30 for the preceding 24 hours.
71 year averages are for period, 1875-1945

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METEOROLOGICAL REGISTER

Date	Clouds clear—0 Overcast—10				beaufort, scale Direction and force of wind			Sea	Notes
	8:30	14:30	20:30	Mean	8:30	14:30	20:30		
1	10st-ni	7cu	3st	6.7	3w	2n	2s	slight	
2	5cu	10cu-st	0	5.0	2w	4ne	2ne	light	
3	10cu-st	10st-ni	9st	9.2	2sw	3sw	4w	,,	
4	10st	4cu	0	4.7	2s	2nw	2ne	,,	
5	1cu-ni	10cu-ni	4cu	5.0	2sw	5ne	2ne	sligh	Hail. at 12:10 at noon
6	10cu-st	6cu-st	1cu	5.7	2e	2w	1n	light	
7	0	3cu-st	0	1.0	2sw	2nw	1e	,,	
8	0	1ci	0	0.3	1nw	1ne	1e	calm	Good Visibility
9	0	0	0	0.0	2ne	3ne	3ne	light	
10	0	0	0	0·0	2ne	2ne	2ne	,,	
11	0	10ci	9ci	6.3	2ne	2ne	1e	light	D.a.m
12	2ci	0	5st	2.3	1se	2e	4se	,,	D.a.m
13	9cu-st	5cu-st	9st-cu	7.7	4sw	3sw	1sw	,,	
14	0	0	0	0.0	2sw	1n	1ne	,,	D.a.m.p.m
15	0	0	0	0.0	1e	1w	1sw	calm	D.H.a m.D.p.m
16	10ci	9cu-st	6cu	8.3	3sw	3w	2sw	light	
17	10cu-ni	9cu-st	4cu-st	7.7	2e	3sw	1s	,,	
18	10cu-st	9cu-st	7st	8.7	3sw	3sw	3sw	,,	
19	10cu-st	3cu	8cu-st	7.0	3sw	3sw	1w	,,	
20	10ci	9ci-st	9st	9.3	2n	3n	4ne	,,	
21	10cu-st	2cu-ci	9st-cu	7.0	2n	1nw	2w	light	
22	10st-ni	5cu-ci	3cu-ci	6.0	1sw	3sw	2sw	,,	
23	10st-cu	2ci	3cu	5.0	2sw	3sw	1sw	,,	
24	0	3cu	9cu	4.0	2w	2w	1ne	,,	
25	9st	10st	0	6.3	3ne	3ne	1n	,,	
26	0	5cu	3ci-cu	2.7	2sw	3sw	1sw	light	
27	4ci	1cu-st	2st	2.3	2w	2nw	1e	,,	
28	3cu	10st	6st	6.3	2ne	2n	1ne	,,	
29	10st-ni	6st-cu	4st	6.7	1w	3n	4ne	,,	
30	3cu	5cu	1ci	3.0	2nw	2nw	1s	,,	
31	0	5cu	0	1.7	2sw	2w	0	,,	
	mean			4.71					

Abbreviations : G = gale ; H = haze ; M = mist ; T = thunderstorm ; D = dew
W = strong wind; Tr = trace of rain

Number of Daily Wind Observations

Time	N	NE	E	SE	S	SW	W	NW	Calm	Totals
8:30	2	5	3	1	1	12	5	2	0	31
14:30	5	7	1	0	0	8	5	5	0	31
20:30	2	10	4	1	3	7	3	0	1	31
Total	9	22	8	2	4	27	13	7	1	93

Number of days with rain 13, fog 0, thunderstorms 0, gale. 0
71 yr. av. number of days with rain during month 10.76
Time of reading minus 2 hours equals G.C.T